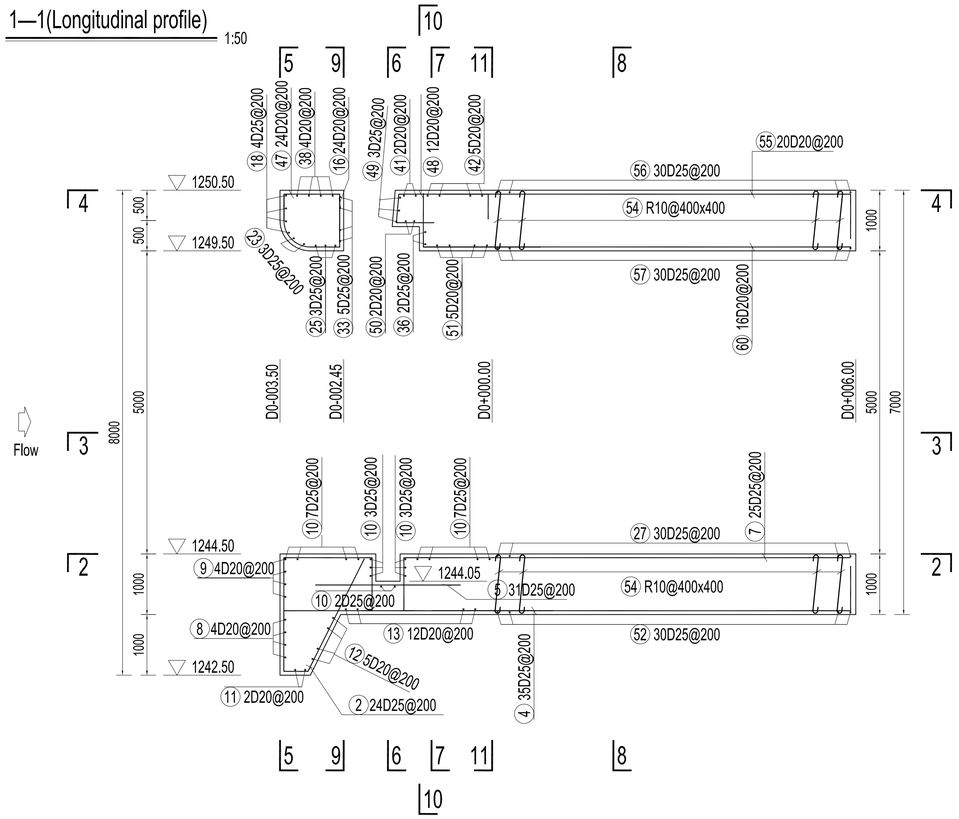
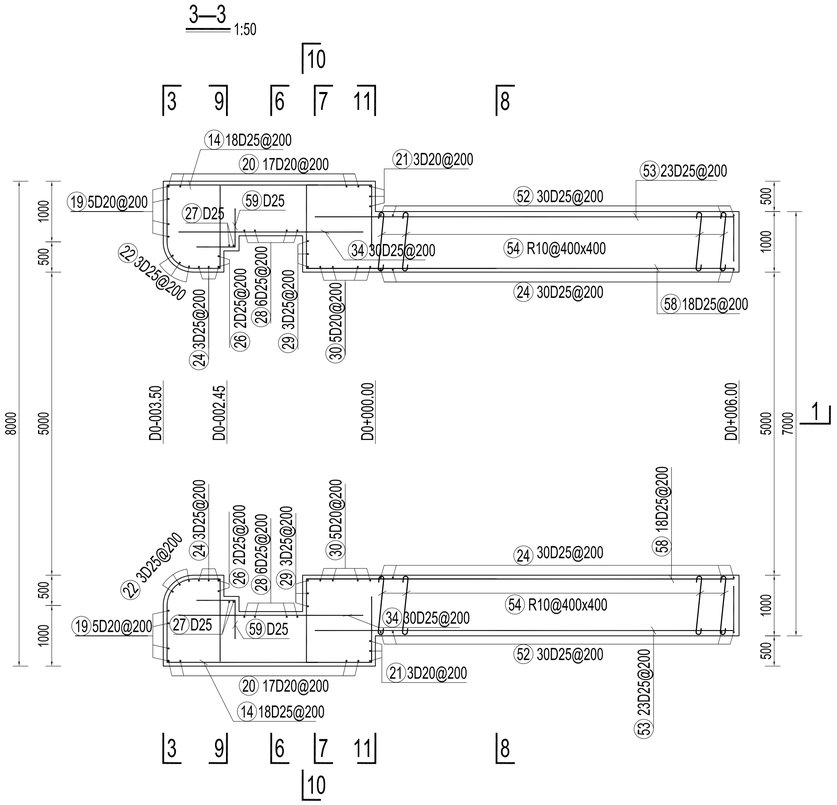
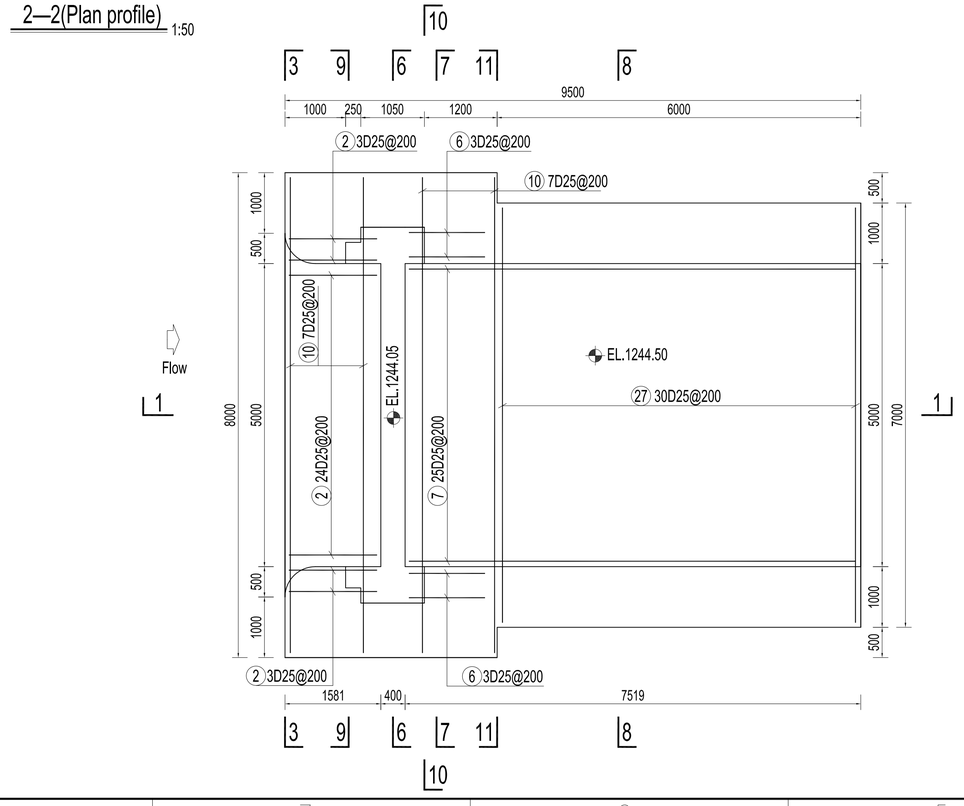
1—1(Longitudinal profile) 1:50



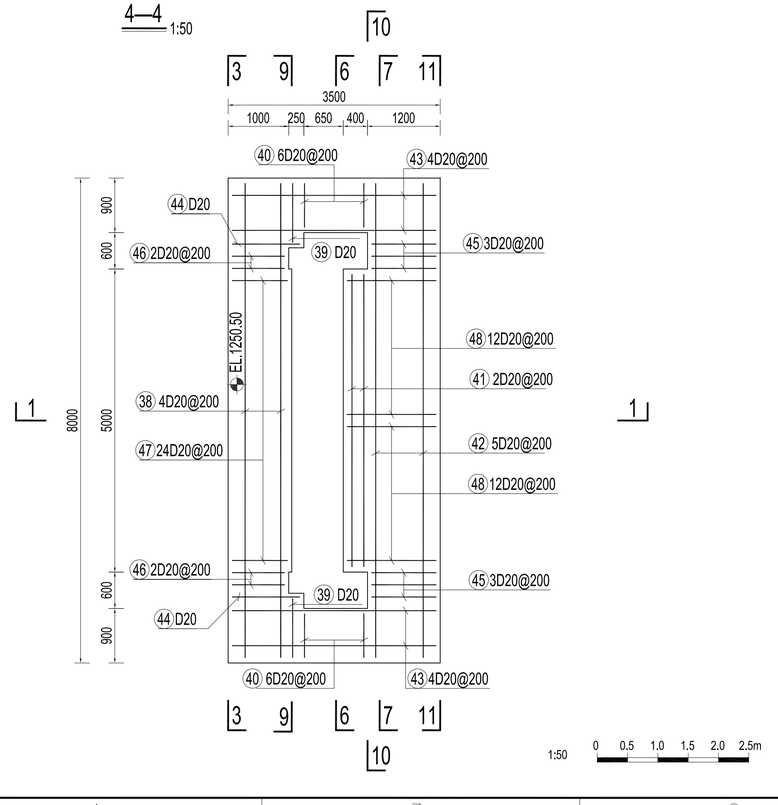
3—3 1:50



2—2(Plan profile) 1:50



4—4 1:50



1:50 0 0.5 1.0 1.5 2.0 2.5m

NOTE

1. This set of drawings are the reinforcement for inlet structure of diversion tunnel.
2. Elevations,chainages are measured in meter,diameter and space of rebar are in millimeter,dimensions are in millimeter unless otherwise stated.
3. The thickness of concrete cover is 75mm.
4. Symbol description:
   R denotes round bar, yield strength of the round bar is 280MPa.
   D denotes deformed bar, yield strength of the deformed bar is 500MPa;
5. Anchorage length and lap length of the steel rebar is 40 times and 50 times of the reinforcement diameter, respectively.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement drawing of diversion tunnel
UT1-C-010-CVL-DG-42002	Excavation and support drawing of inlet and outlet of diversion tunnel
UT1-C-010-CVL-DG-42004	Outline drawing of inlet structure of diversion tunnel

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	5.Mar.2022	FOR APPROVAL	Han Y.H.	Lei Y.G.	Luo L. Wang C.G.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

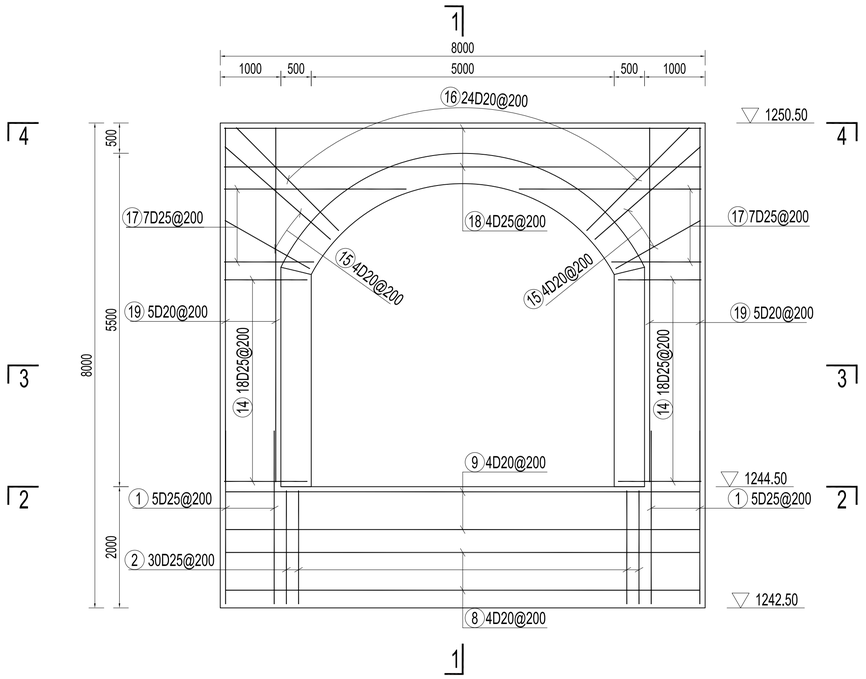
DOOSAN Doosan Heavy Industries & Construction

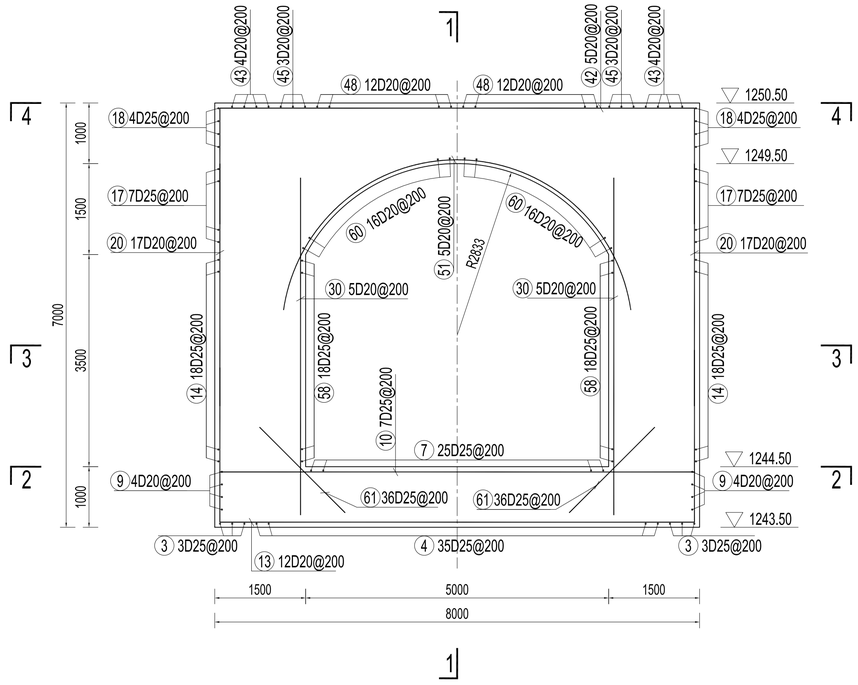
DRAWING TITLE

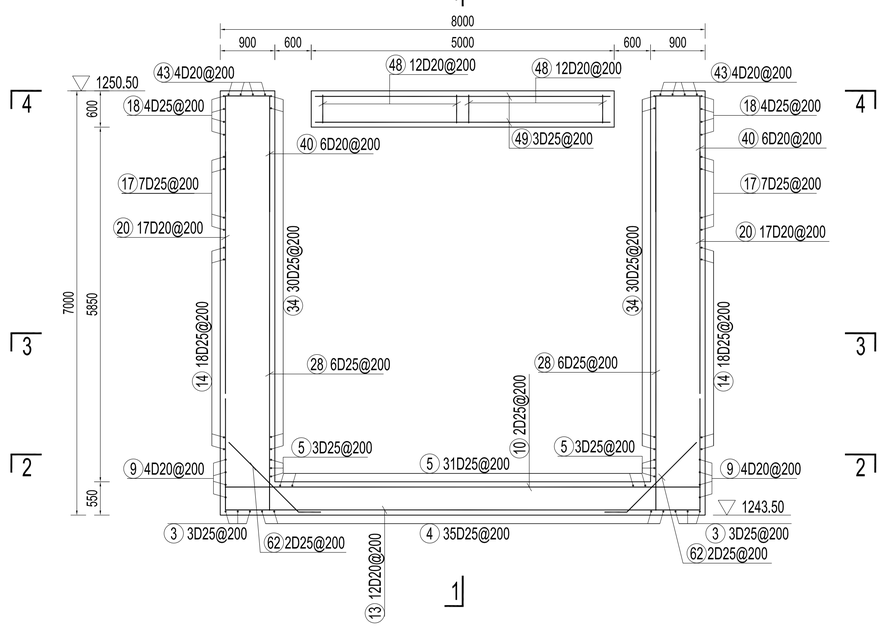
Reinforcement Drawing of Inlet Structure of Diversion Tunnel

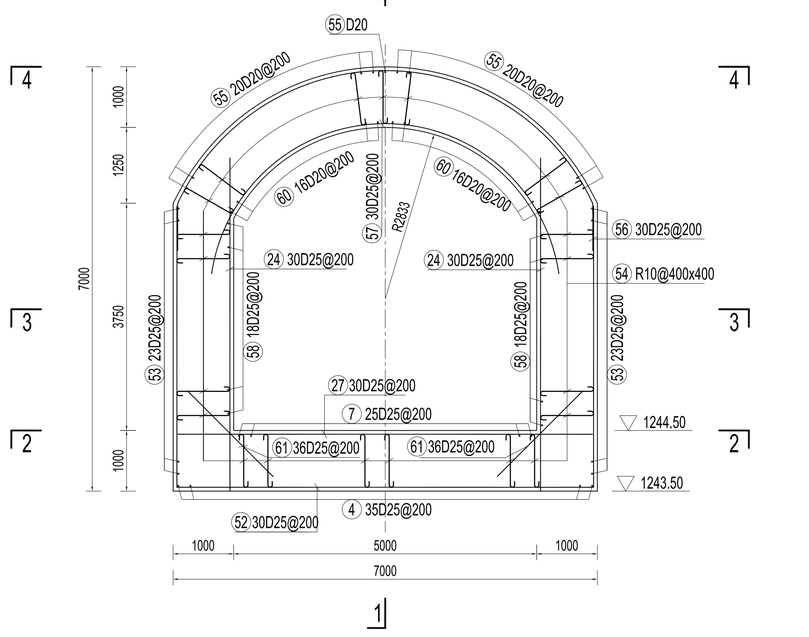
INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-1	1 OF 4	0A

A1 (594 x 841 MM)









1:50 0 0.5 1.0 1.5 2.0 2.5m

NOTE

1. This set of drawings are the reinforcement for inlet structure of diversion tunnel.
2. Elevations,chainages are measured in meter,diameter and space of rebar are in millimeter,dimensions are in millimeter unless otherwise stated.
3. Other notes refer to the 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement drawing of diversion tunnel
UT1-C-010-CVL-DG-42002	Excavation and support drawing of inlet and outlet of diversion tunnel
UT1-C-010-CVL-DG-42004	Outline drawing of inlet structure of diversion tunnel

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	5.Mar.2022	FOR APPROVAL	Han Y.H.	Lei Y.G.	Luo L. Wang C.G.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC
NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT.LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE
jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Reinforcement Drawing of Inlet Structure of Diversion Tunnel

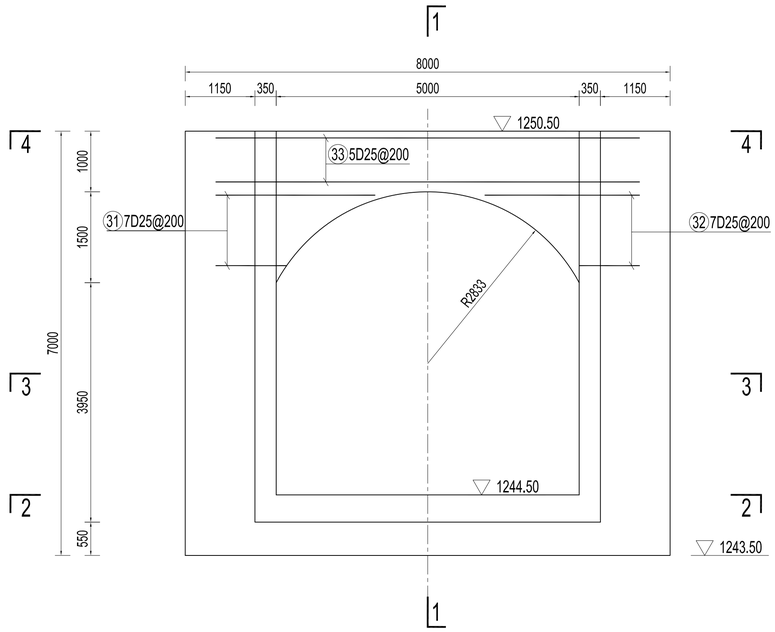
INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-2	2 OF 4	0A

A1 (594 x 841 MM)

9—9

1:50

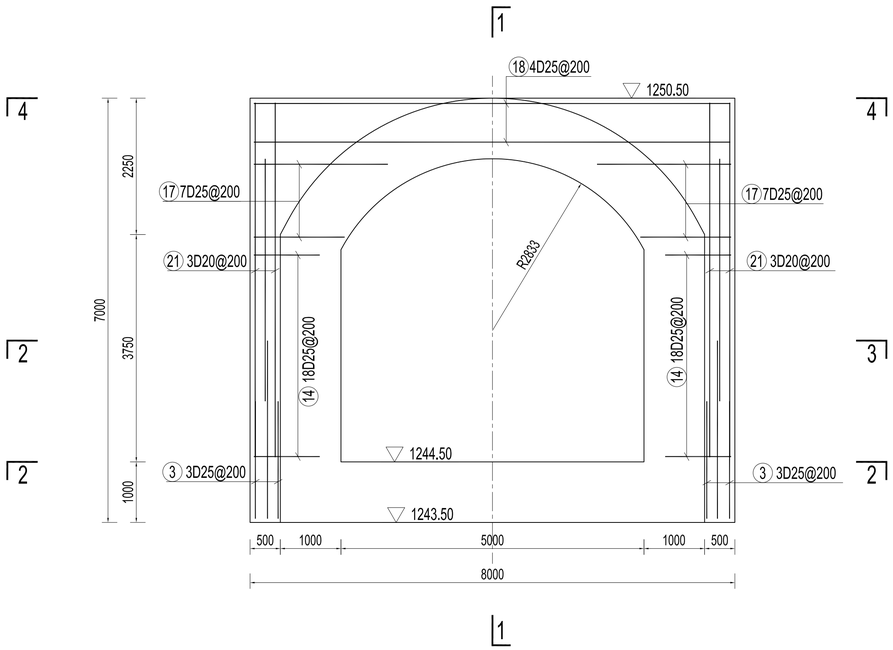
Local surface reinforcement



11—11

1:50

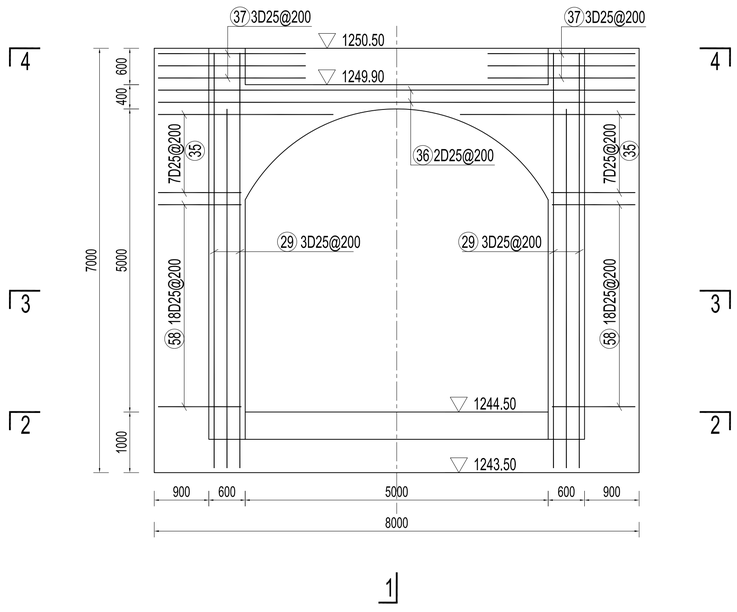
Local surface reinforcement



10—10

1:50

Local surface reinforcement



1:50 0 0.5 1.0 1.5 2.0 2.5m

NOTE

1. This set of drawings are the reinforcement for inlet structure of diversion tunnel.
2. Elevations,chainages are measured in meter,diameter and space of rebar are in millimeter,dimensions are in millimeter unless otherwise stated.
3. Other notes refer to the 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement drawing of diversion tunnel
UT1-C-010-CVL-DG-42002	Excavation and support drawing of inlet and outlet of diversion tunnel
UT1-C-010-CVL-DG-42004	Outline drawing of inlet structure of diversion tunnel

SYMBOL AND LEGEND

FOR APPROVAL

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0A	5.Mar.2022	FOR APPROVAL	Han Y.H.	Lei Y.G.	Luo L. Wang C.G.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC
NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE
jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Reinforcement Drawing of Inlet Structure of Diversion Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-3	3 OF 4	0A

A1 (594 x 841 MM)

Table of Reinforcement(1)

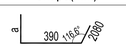
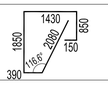
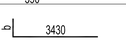
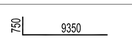
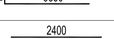
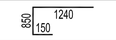
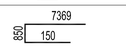
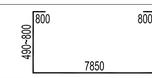
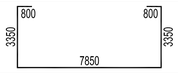
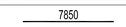
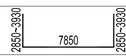
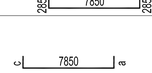
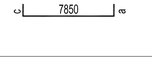
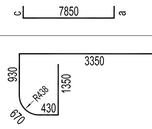
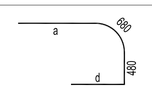
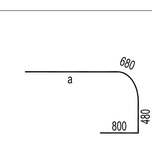
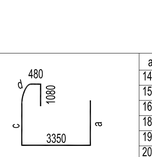
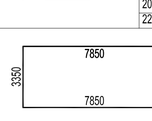
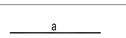
No.	Dia.(mm)	Shape(mm)			Single L(mm)	Qty.	Total L(m)	Remarks
①	D25		a			10		
			2850	5320		6	57.52	
			3930	6400		4		
②	D25				6750	30	202.50	
③	D25		b			6		
			1930	5360		4	34.16	
			2930	6360		2		
④	D25				10100	35	353.50	
⑤	D25				2400	37	88.80	
⑥	D25				2240	3×2	13.44	
⑦	D25				8369	25	209.23	
⑧	D20				10430~11050	4	42.96	Δ=103 Δ=103
⑨	D20				16150	4	64.60	
⑩	D25				7850	22	172.70	
⑪	D20				15710~13550	2	29.26	
⑫	D20		a	c		5		
			2670	2670	13190	1	66.85	
			3570	3570	14990	1		
			2330	2330	12510	1		
			3240	3240	14330	1		
			1990	1990	11830	1		
⑬	D20		a	c		12		
			1850	1850	11550	6	151.56	
			2930	2930	13710	6		
⑭	D25				7810	18×2	281.16	
⑮	D20		a	d		8		
			1180	800	3140	2	27.74	
			1370	790	3320	2		
			1600	800	3560	2		
			1890	800	3850	2		
⑯	D20		a			24		
			1970		3930	2	69.28	
			1640		3600	2		
			1370		3330	2		
			1150		3110	2		
			970		2930	2		
			820		2780	2		
			700		2660	2		
			610		2570	2		
			530		2490	2		
			480		2440	2		
			440		2400	4		
⑰	D25		a	c	d	14		
			1490	970	740	2	126.36	
			1590	1080	760	2		
			1690	1220	780	2		
			1810	1370	820	2		
			1930	1550	870	2		
			2060	1770	960	2		
			2200	2030	1120	2		
⑱	D25				30250	4	121.00	
⑲	D20		a			10		
			5850		5850	6	51.10	
			4000		4000	4		

Table of Reinforcement(2)

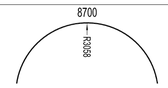
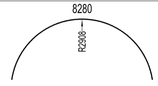
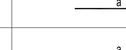
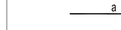
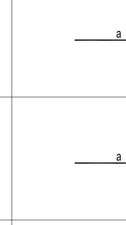
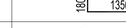
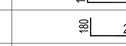
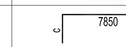
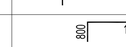
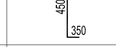
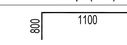
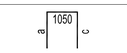
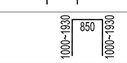
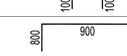
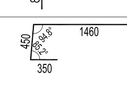
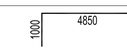
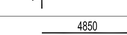
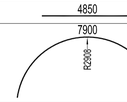
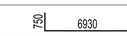
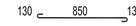
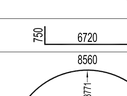
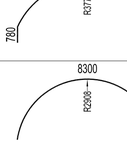
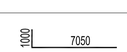
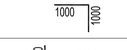
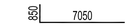
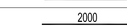
No.	Dia.(mm)	Shape(mm)			Single L(mm)	Qty.	Total L(m)	Remarks
⑳	D20		a			34		
			5850		5850	18	169.30	
			4000		4000	16		
㉑	D20		a			6		
			5850		5850	4	31.40	
			4000		4000	2		
㉒	D25				5500~5550	3×2	33.15	Δ=25
㉓	D25				8700	3	26.10	
㉔	D25				5500	66	363.00	
㉕	D25				8280	3	24.84	
㉖	D25				7030~6100	2×2	26.26	Δ=930
㉗	D25				6850	34	232.90	
㉘	D25		a			12		
			5930		5930	6	76.68	
			6850		6850	6		
㉙	D25		a			6		
			6850		6850	4	39.26	
			5930		5930	2		
㉚	D20				5100	5×2	51.00	
㉛	D25		a			7		
			1170		1170	1	12.01	
			1220		1220	1		
			1390		1390	1		
			1590		1590	1		
			1840		1840	1		
			2160		2160	1		
			2640		2640	1		
㉜	D25		a			7		
			1010		1010	1	11.42	
			1150		1150	1		
			1320		1320	1		
			1520		1520	1		
			1770		1770	1		
			2090		2090	1		
			2560		2560	1		
㉝	D25				7000	5	35.00	
㉞	D25				3050	30×2	183.00	
㉟	D25				2530~4465	7x2	48.97	Δ=276
㊱	D25				8210	2	16.42	
㊲	D25				2610	3×2	15.66	
㊳	D20		a	c		4		
			930	1000	9780	2	42.98	
			1930	1930	11710	2		
㊴	D20				3800	1×2	7.60	
㊵	D20		a	c		12		
			1000	1000	2750	6	44.16	
			1930	1930	4610	6		
㊶	D20				6450	2	12.90	
㊷	D20		a	c		5		
			1000	1000	9850	3	52.97	
			1930	1930	11710	2		
㊸	D20		a	c		8		
			1000	1000	5350	4	50.24	
			1930	1930	7210	4		

Table of Reinforcement(3)

No.	Dia.(mm)	Shape(mm)			Single L(mm)	Qty.	Total L(m)	Remarks
㊹	D20				2700	1×2	5.40	
㊺	D20		a	c		6		
			1000	1000	3050	4	22.02	
			1930	1930	4910	2		
㊻	D20				4710~2850	2×2	15.12	Δ=930 Δ=930
㊼	D20				2500	24	60.00	
㊽	D20				3060	12×2	73.44	
㊾	D25				6850	3	20.55	
㊿	D20				4850	2	9.70	
(51)	D20				7900	5	39.50	
(52)	D25				16110	30	483.30	
(53)	D25				7680	23×2	353.28	
(54)	R10				1110	120×6	799.20	
(55)	D20				7470	41	306.27	
(56)	D25				10120	30	303.60	
(57)	D25				8300	30	249.00	
(58)	D25				8050	36	289.80	
(59)	D25				2000	30x2	120.00	
(60)	D20				7900	16×2	252.80	
(61)	D25				2000	90	180.00	
(62)	D25				2000	2×2	8.00	

BOQ

Dia. (mm)	Total length (m)	Unit W (kg/m)	Total W (kg)	Sum (t)
R10	799.20	0.617	493.11	23.34
D20	1750.15	2.470	4322.87	
D25	4812.57	3.850	18528.39	

NOTE

1. This set of drawings are the reinforcement for inlet structure of diversion tunnel.
2. Elevations,chainages are measured in meter,diameter and space of rebar are in millimeter,dimensions are in millimeter unless otherwise stated.
3. Other notes refer to the 1/4.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement drawing of diversion tunnel
UT1-C-010-CVL-DG-42002	Excavation and support drawing of inlet and outlet of diversion tunnel
UT1-C-010-CVL-DG-42004	Outline drawing of inlet structure of diversion tunnel

SYMBOL AND LEGEND

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	5.Mar.2022	FOR APPROVAL	Han Y.H.	Lei Y.G.	Luo L Wang C.G.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

Reinforcement Drawing of Inlet Structure of Diversion Tunnel

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-4	4 OF 4	0A

A1 (594 x 841 MM)